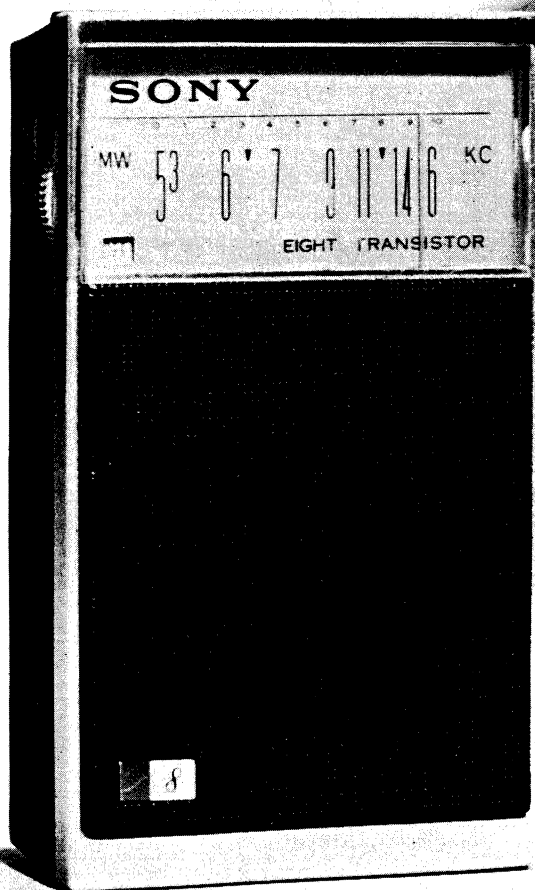


TR-826



Specifications

Circuit: 8 Transistor Superheterodyne
Frequency Coverage: 530—1,605 Kc (566—187 m)
Intermediate Frequency: 455 Kc
Antenna System: Built-in Ferrite Bar Antenna
Maximum Sensitivity: 100 μ V/m with built-in Ferrite Bar Antenna
(at 10 mW output)
Selectivity: 18 dB at 10 Kc off resonance, at 1,400 Kc
Output Power: 120 mW (undistorted)
Current Drain: 7 mA at zero signal
32 mA at 120 mW output
Speaker: 2-3/8" (6 cm) PM dynamic, 8 Ω
Battery: Eveready 216 (BL-006P) or
Equivalent (9 Volts)
Dimensions: 4-1/8" \times 2-1/2" \times 1-1/8"
(105 \times 63 \times 28 mm)
Weight: 0.44 lb (0.2 Kg.)

SONY®
SERVICING GUIDE

Adjustment and Alignment

a) Frequency Coverage

Lower Limit	Adjust	Upper Limit	Adjust
520 Kc	Core of OSC Coil (Lo)	1,680 Kc	OSC Trimmer (C ₂₋₂)

b) Tracking Alignment

Checking Point	Adjust	Checking Point	Adjust
620 Kc	Position of ANT Coil (LA)	1,400 Kc	ANT Trimmer (C ₂₋₁)

To Remove the Chassis and Printed Circuit Board from the Cabinet

- 1) Loosen the Back Cover Securing Screw and open the Back Cover.
- 2) Remove three Nuts (①, ② and ③) as shown in Fig. 1.
- 3) Unsolder the Speaker Lead Wires (White and Black) at the Speaker terminals if necessary.

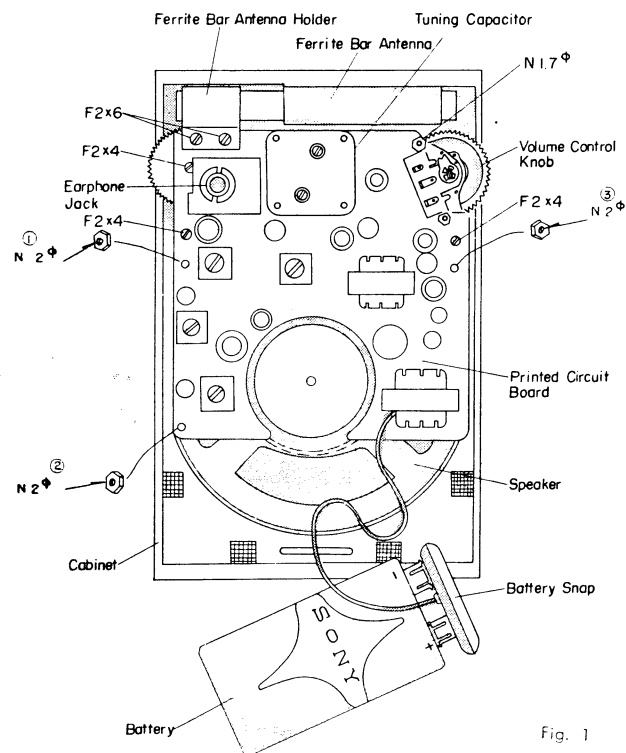
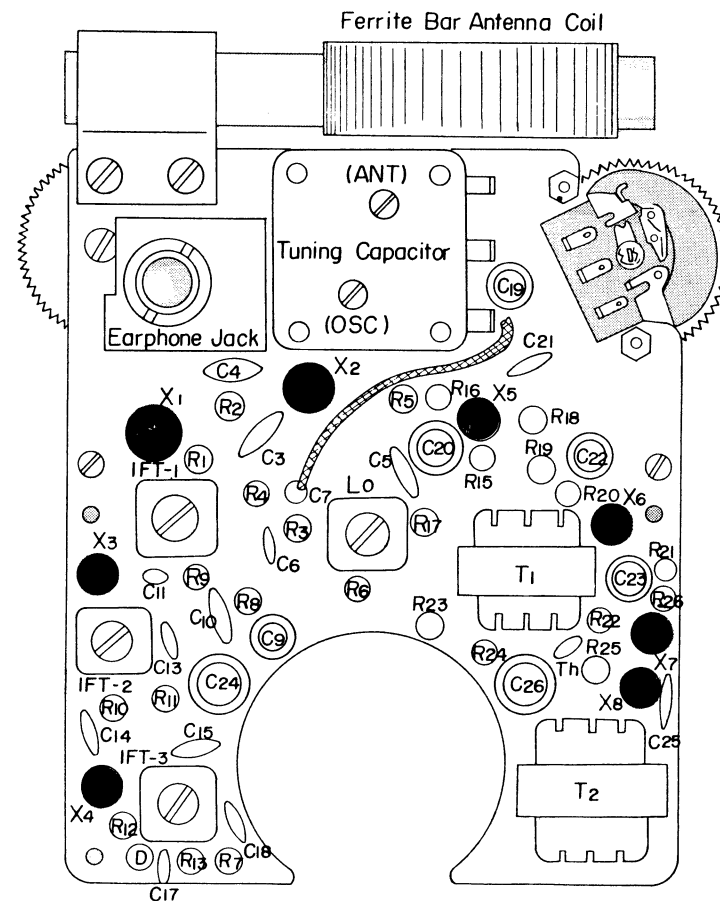


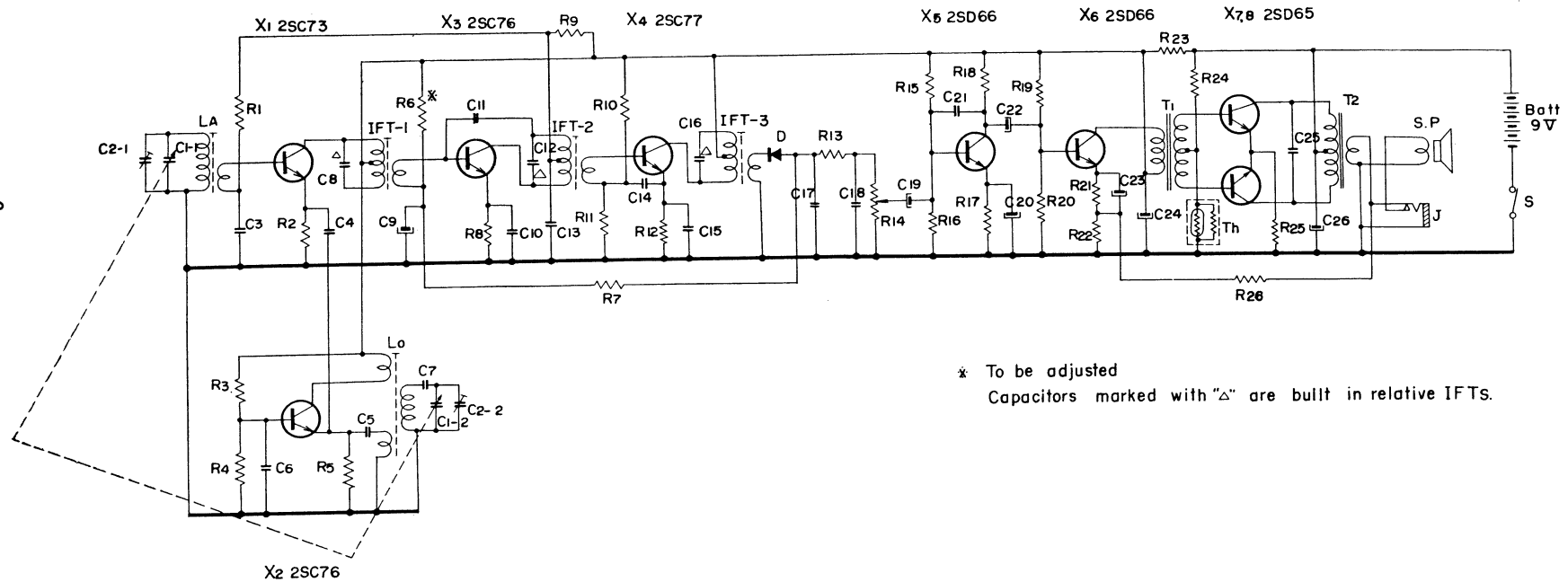
Fig. 1

Mounting Diagram

— Parts Side —



Schematic Diagram



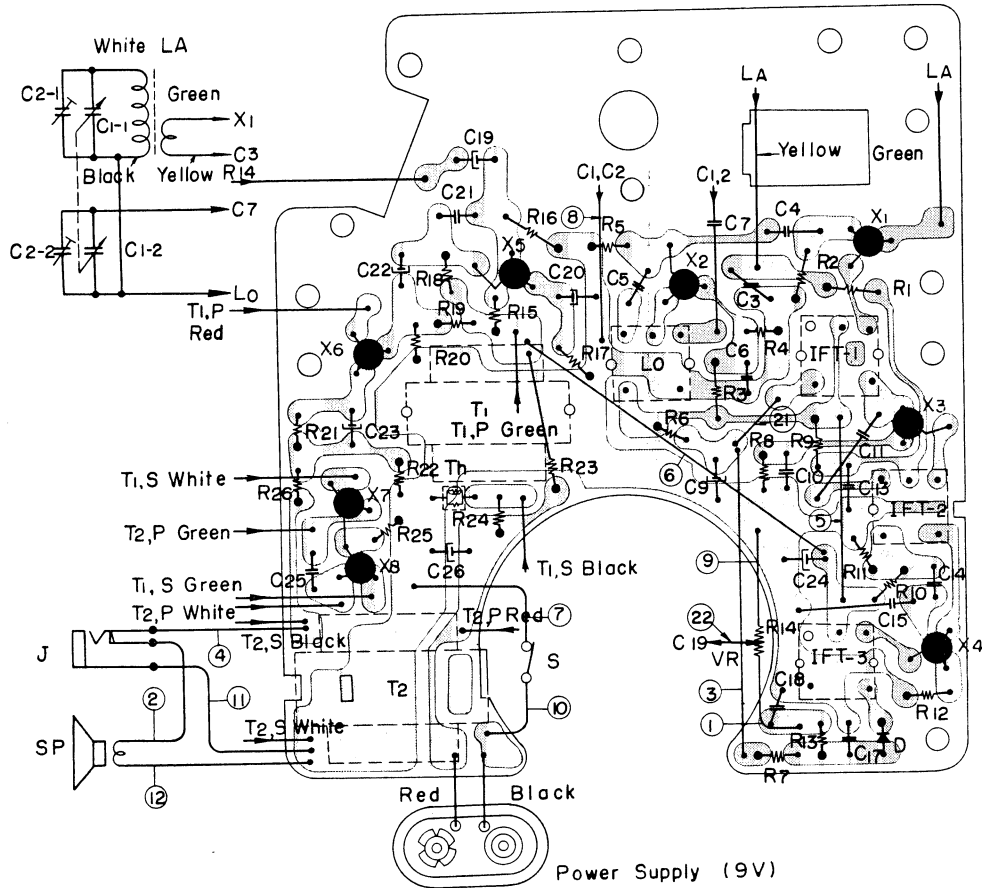
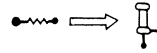
Electronic Parts List

Part No.	Symbol	Description	Part No.	Symbol	Description	Part No.	Symbol	Description
1-401-173-11	LA	Ferrite Bar Antenna	1-203-425-00	R ₄	5.6K Ω $\frac{1}{16}$ W Carbon	1-151-051-00	C ₂₋₁₋₂	Trimmer Capacitor, 2 unit
1-405-095-11	Lo	Oscillator Coil	1-203-446-00	R ₅	2K Ω " "	1-101-073-15	C ₃	0.02 μ F Ceramic
1-403-057-02	IFT ₁	IF Transformer	1-203-614-00	*R ₆	100K Ω " "	1-105-104-11	C ₄	0.002 μ F Mylar
1-403-058-02	IFT ₂	"	1-203-425-00	R ₇	5.6K Ω " "	1-105-104-11	C ₅	0.002 μ F "
1-403-059-02	IFT ₃	"	1-203-420-00	R ₈	470 Ω " "	1-101-072-15	C ₆	0.01 μ F Ceramic
1-423-066-11	T ₁	Driver Transformer	1-203-427-00	R ₉	10K Ω " "	1-103-024-11	C ₇	130PF Styrol
1-427-090-13	T ₂	Output Transformer	1-203-635-00	R ₁₀	39K Ω " "		C ₈	150PF (built in IFT ₁)
1-502-093-11	SP	Speaker	1-203-434-00	R ₁₁	3.3K Ω " "	1-121-103-05	C ₉	10 μ F 3V Electrolytic
1-507-011-00	J	Earphone Jack	1-203-420-00	R ₁₂	470 Ω " "	1-101-073-15	C ₁₀	0.02 μ F Ceramic
1-528-006-00	Batt.	Battery (9 V)	1-203-421-00	R ₁₃	1K Ω " "	1-101-009-11	C ₁₁	1PF "
	X ₁	Transistor 2SC73	1-221-130-11	R ₁₄	5K Ω Volume Control		C ₁₂	150PF (built in IFT ₂)
	X ₂	" 2SC76	1-203-593-00	R ₁₅	36K Ω $\frac{1}{16}$ W Carbon	1-101-072-15	C ₁₃	0.01 μ F Ceramic
	X ₃	" 2SC76	1-203-425-00	R ₁₆	5.6K Ω " "	1-101-072-15	C ₁₄	0.01 μ F "
	X ₄	" 2SC77	1-203-421-00	R ₁₇	1K Ω " "	1-101-072-15	C ₁₅	0.01 μ F "
	X ₅	" 2SD66	1-203-421-00	R ₁₈	1K Ω " "		C ₁₆	150PF (built in IFT ₃)
	X ₆	" 2SD66	1-203-428-00	R ₁₉	27K Ω " "	1-101-072-15	C ₁₇	0.01 μ F Ceramic
	X ₇	" 2SD65	1-203-427-00	R ₂₀	10K Ω " "	1-101-072-15	C ₁₈	0.01 μ F "
	X ₈	" 2SD65	1-203-421-00	R ₂₁	1K Ω " "	1-121-103-05	C ₁₉	10 μ F 3V Electrolytic
	D	Diode 1T23G	1-203-418-00	R ₂₂	10 Ω " "	1-121-103-05	C ₂₀	10 μ F 3V "
	Th	Thermistor CS-120	1-203-419-00	R ₂₃	220 Ω " "	1-101-140-14	C ₂₁	0.005 μ F Ceramic
		Resistor	1-203-426-00	R ₂₄	7.5K Ω " "	1-121-104-05	C ₂₂	10 μ F 6V Electrolytic
1-203-427-00	R ₁	10K Ω $\frac{1}{16}$ W Carbon	1-203-418-00	R ₂₅	10 Ω " "	1-121-101-05	C ₂₃	30 μ F 3V "
1-203-631-00	R ₂	20K Ω " "	1-203-610-00	R ₂₆	680 Ω " "	1-121-110-05	C ₂₄	30 μ F 10V "
1-203-635-00	R ₃	39K Ω " "			Capacitor	1-101-073-15	C ₂₅	0.02 μ F Ceramic
			1-151-051-00	C ₁₋₁₋₂	Tuning Capacitor, 2 gang	1-121-110-05	C ₂₆	30 μ F 10V Electrolytic

* To be adjusted

Mounting Diagram

—Printed Side—



No.	PVC Wire Colour	Connection	No.	PVC Wire Colour	Connection
①	White	R13 - R14	⑦	Red	C26 - S
②	"	J - SP	⑧	Black	L ₀ - C1,2
③	Yellow	R6 - R7	⑨	"	R14 - C24
④	"	J - R26	⑩	"	-B - S
⑤	Red	IFT ₁ - IFT-3	⑪	"	J - G
⑥	"	C24 - R15	⑫	"	SP - G

Tinned Copper Wire	
⑪	IFT ₁ - C ₉
⑫	R14 - C19

T₁, P - T₁, Primary

T₂, P - T₂, Primary

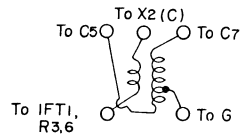
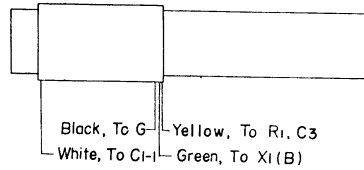
T₁, S - T₁, Secondary

T₂, S - T₂, Secondary

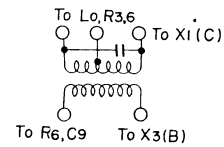
Adjustment and Alignment

a) Frequency Coverage

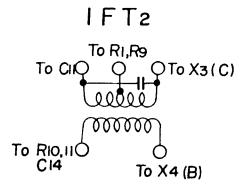
LA. MW, Ferrite Bar Antenna



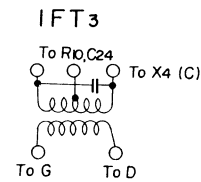
Lo. MW, OSC Coil



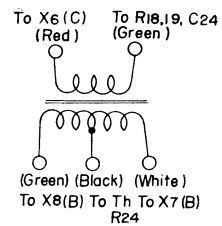
IFT₁



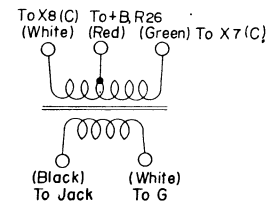
IFT₂



IFT₃



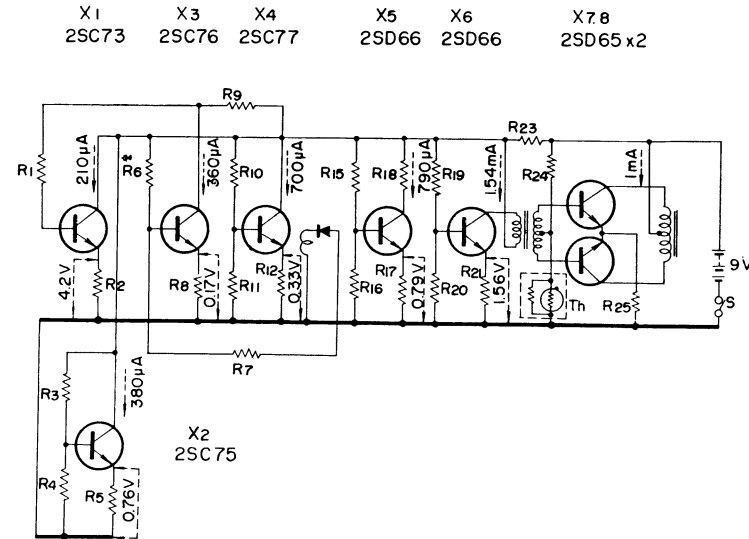
T₁ Driver Transformer



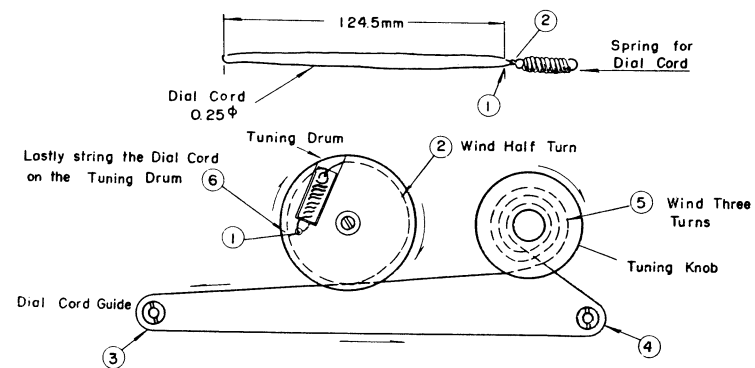
T₂ Output Transformer

	Impedance	DC Resistance	Impedance	DC Resistance
Primary	3.9 K Ω	330 Ω	Primary	820 Ω
Secondary	1.8 K Ω	180 Ω	Secondary	8 Ω
				1.1 Ω

Current and Voltage Distribution Chart at Zero Signal

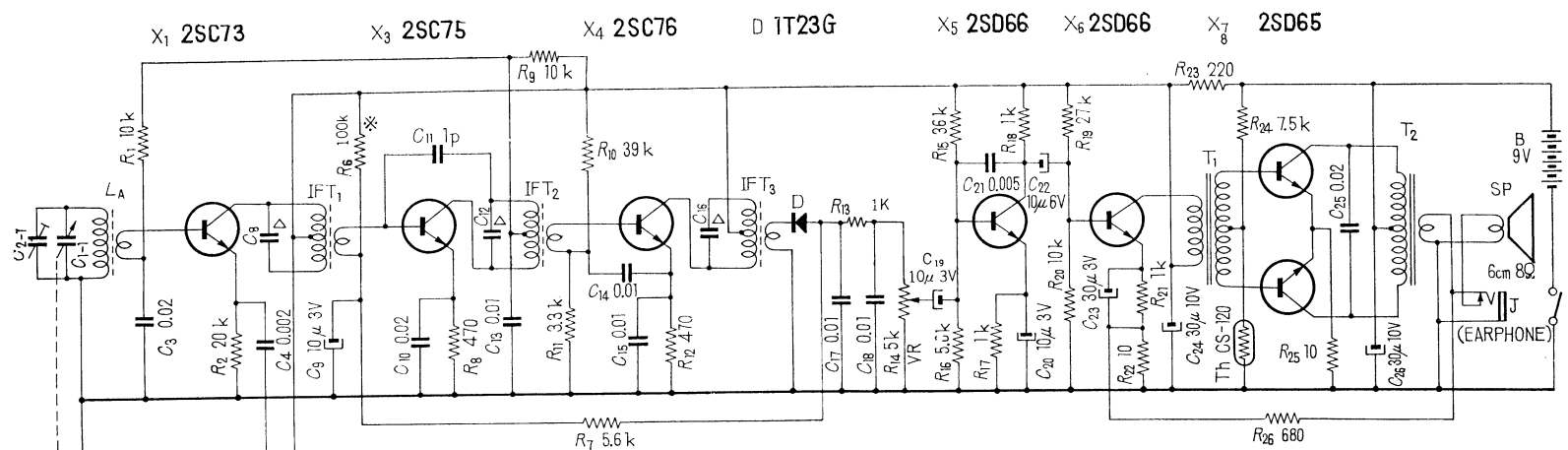


To String the Dial Cord

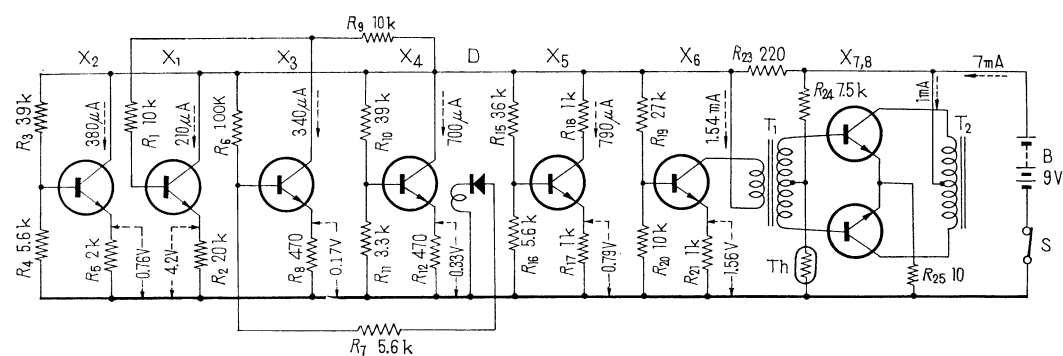


SONY[®] Transistor Radio Circuits ***1***

Schematic Diagram



Voltage and Current Distribution Chart at Zero Signal

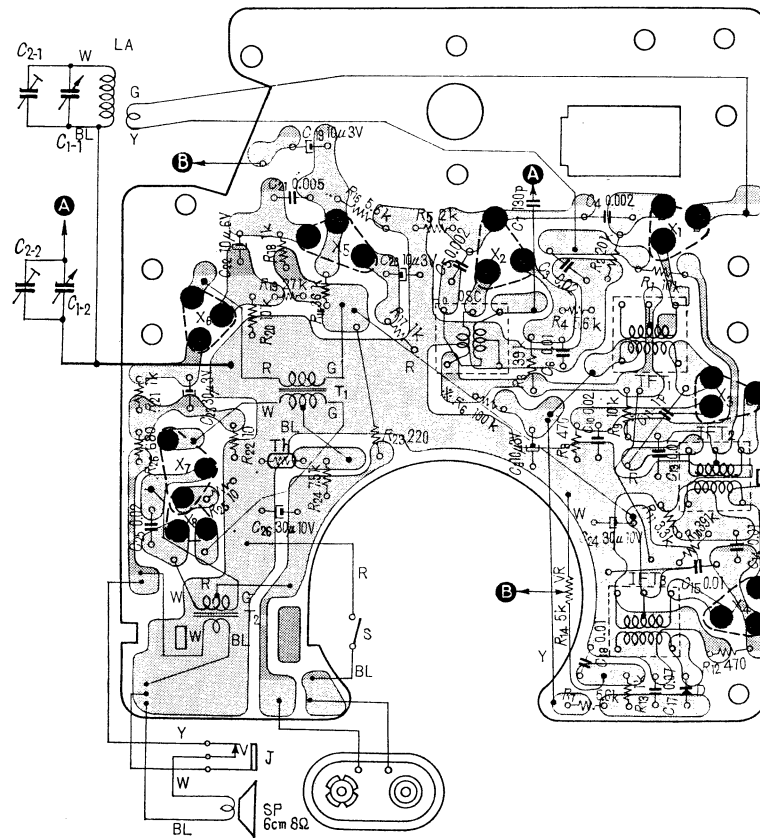


Capacitors marked with "Δ" are built in relative IF Transformers.
※ To be adjusted

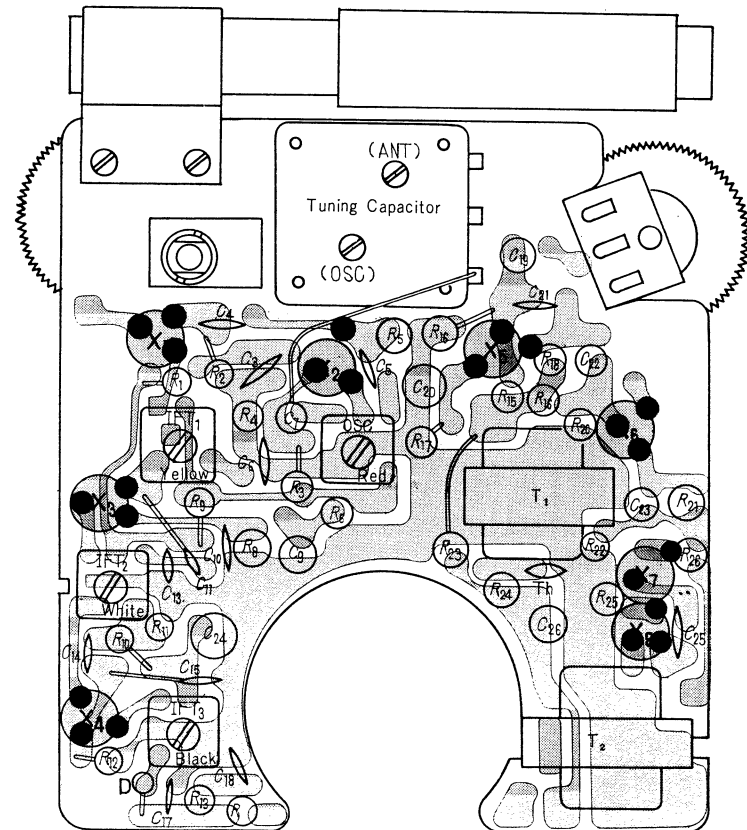
※ To be adjusted

Mounting Diagram

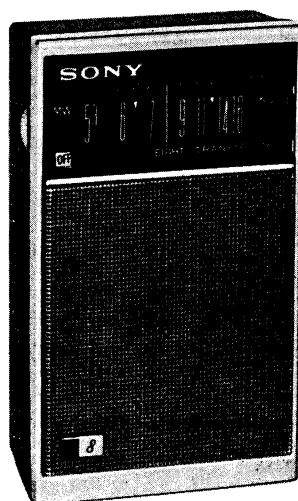
-- Printed Side --



-- Parts Side --



TR-826



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	(105 \times 63 \times 28 mm)
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Adjustments

a) Frequency Coverage Adjustment

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